nicolagiacchetta
software engineer

contact

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languages

Italian: mother tongue
English: advanced
French: conversational
Spanish: conversational

skills

Java Ecosystem:
Java8, Gradle, Maven,
Jenkins, Dropwizard,
Tomcat, JUnit, Mockito
**Message/Streaming
Platform**: Apache Kafka
Databases:
MySql, Couchbase
Cloud Services:
AWS Dynamo DB,
Google Cloud Datastore
Collaboration Tools:
GitHub, SVN, Perforce
Frontend: Html5, CSS3,
Javascript, JQuery
Other: Docker, Bash,
XML, JSON,
PHP, C/C++

interests

Professional
Distributed Systems
Microservices
RESTful APIs
Clean Code

Personal
football
tennis
music
vinyls
cooking
photography
traveling

education

Master of Computer Engineering · Napoli, Italy | Oct 2015
Università degli Studi di Napoli Federico II
Thesis: *Resource efficient sensor allocation for geographic range queries in IoT Service Orchestration.*
Final Grade: *110/110*

Bachelor of Computer Engineering · Napoli, Italy | Dec 2011
Università degli Studi di Napoli Federico II

work experience

Java Backend Developer *Nexmo* · London, UK | Dec 2016–Present
Designed and maintained the core backend of a Cloud Communication Platform, troubleshooting concurrency bugs, as well as scalability and performance issues in a large (~N x 1000 RPS on 6 DCs) real-time distributed system.
- developed new RESTful APIs
- extracted 3 microservices from a complex monolithic application
- worked on performance bottlenecks due to the low cardinality of AWS Dynamo DB indexes
- worked on the migration from AWS DynamoDB to Google Cloud Datastore
- worked on a data pipeline to anonymize users' PIIs in the platform to comply with the GDPR
- refactored an important part of the codebase (~10K LoC) to comply with the GDPR
- worked on a tool to perform cross-DC MySql Master-Slave replication and Master failover
- mentored junior team members and took part in several hiring processes

Software Engineer *EidosMedia* · Milan, Italy | Dec 2015–Oct 2016
Developed a software layer to expose the core functionalities of the backend of a Digital Content Publishing Platform via RESTful APIs.
- developed algorithms to manage the internal document model of the platform
- increased unit test coverage (from ~30% to ~90%)
- refactored a key internal web service reducing its codebase from ~5000 to ~4000 LoC
- implemented a plugin for the integration with the Apple News API

Research & Development Intern *NEC Laboratories Europe* · Heidelberg, Germany | Jan–Jun 2015
Built a Java module implementing a resource efficient sensor allocation algorithm for geographic range queries to be integrated in the IoT Broker GE.
- carried out most of the scientific research to find an algorithmic solution for the problem
- implemented the chosen algorithm in Java and a JavaFX-based simulation environment

Web Developer *StudioInTlc* · Scafati, Italy | Mar–Dec 2014
Provided expertise and deep understanding of the web tech stack (TCP/IP, HTTP, HTML5, CSS3, JavaScript, PHP), gained experience using the most common CMS platforms (Wordpress, Prestashop) & in troubleshooting cross-browser and cross-devices compatibility issues.

extra curricular activities

Team Kanban Practitioner (TKP) *Lean Kanban University* · London, UK | Jun 2017
Completed training in improved collaboration and Team Kanban concepts based on the Kanban Method and accepted by Lean Kanban University as a Team Kanban Practitioner.

Freelance Web Developer · Naples, Italy | Feb 2013–Dec 2014
Implemented web solutions (websites and e-commerce) for clients of various markets.
- fashion & clothing (Plainstore.it, Revenge)
- retail (La Riggiola)
- art: film production (O'Groove), singers (Carola Moccia, Be Quiet Nights)

Co-Founder & Administrator *Zerottouno.it* · Naples, Italy | Jan 2012–Feb 2013
Co-founded a website where the users could get all-round information about the town of Naples. The aim was to create a virtual community built around a news aggregator.
- co-managed a team of 9 people (6 bloggers, 1 UI designer, 2 Developers)
- built a community of thousands of active users (~N x 100K unique page-views per Month)